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REPORTED INDUCED ABORTIONS
MINNESOTA, 1980

Report No. 6
Minnesota Abortion Surveillance
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Minnesota Center for Health Statistics
Minnesota Department of Health
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PREFACE

This report is the sixth in a series of analyses of data gathered during the Minnesota Abortion Surveillance. These data were collected, analyzed and prepared by the staff of the Minnesota Center for Health Statistics. Address correspondence to Minnesota Center for Health Statistics, 717 Delaware St. S.E., Minneapolis, MN 55440.

INTRODUCTION

The Minnesota Abortion Surveillance is a statewide reporting system monitored by the Center for Health Statistics within the Minnesota Department of Health. Since introduction of the surveillance in 1974, data on abortions have been gathered through voluntary reporting by provider facilities throughout Minnesota. Continuous facility recruiting has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled on the system.

Analysis of data received through the surveillance has provided current public health information on abortions including demographic profiles of the abortion patients.

Since, by definition, a voluntary surveillance is subject to partial and incomplete reporting of events, this report and the data collected do not imply the complete and comprehensive status of legal abortion in Minnesota. The intention of this report is to describe as accurately as possible the situation as it was reported during the Surveillance period.

SYMBOLS

Data not available
Data not applicable . . . . . -

Quantity zero 0

Quantity >0 but <0.05 . . . . . 0.0

HISTORICAL RELATIONSHIP OF THE MINNESOTA ABORTION SURVEILLANCE TO NATIONAL ABORTION DATA

Although continuous reporting of induced abortions was initiated nationally by the Center of Disease Control (CDC) in Atlanta during 1969, data on Minnesota women did not appear in CDC's "Surveillance Report" until 1972. In that year, 2,227 abortions to Minnesota resident women were reported by agencies outside Minnesota.[1] Abortion services first became available in Minnesota in 1973.[2] In 1973 and 1974, the CDC solicited reports of induced abortions from several hospitals and clinics in Minnesota. In 1974, the Minnesota Abortion Surveillance was established by the Center for Health Statistics, Minnesota Department of Health, for the voluntary reporting of abortions performed in the state. The first year "testing phase" of the Surveillance provided CDC with three (3) months of survey data which CDC published in lieu of its solicited abortion data. 1975 marked the first complete year of the Minnesota-based Surveillance and since then annual abortion data has been supplied to CDC, as well as to other federal, state, and private agencies.

In 1977, the last year for which national data are available, CDC reported 1,010,822 abortions performed in the fifty (50) states and the District of Columbia. The national abortion ratio for that year was 324.5 abortions per 1,000 live births.[3] The Minnesota resident abortion ratio in the same year was 216.1 abortions per 1,000 live births.

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[1] Center for Disease Control: "Abortion Surveillance, 1972," issued April, 1974.

[2] In 1973, a January 22 United States Supreme Court decision legalized abortion in the United States, superseding Minnesota prohibitions on abortions.

[3] Center for Disease Control: "Abortion Surveillance: 1977," issued September, 1979.

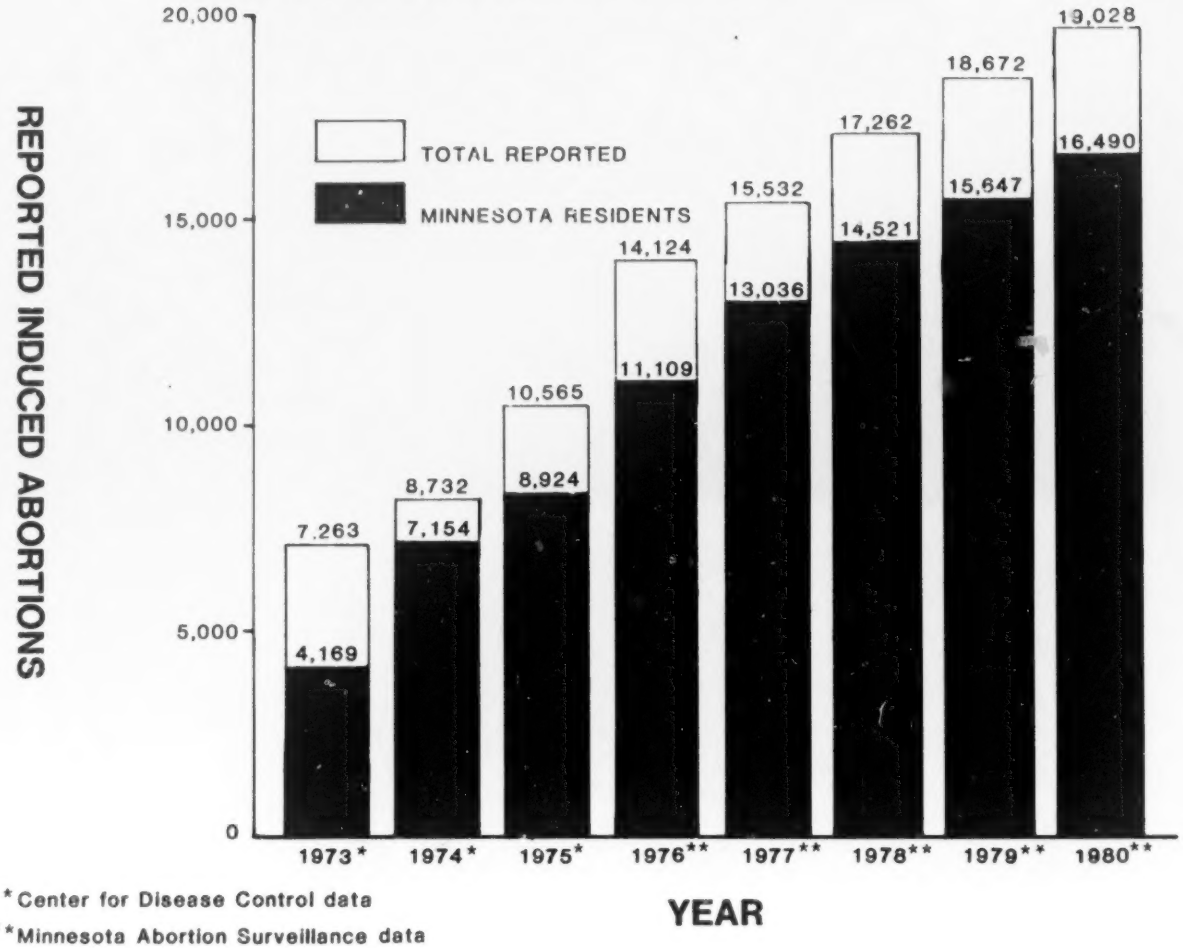
The number of resident and total abortions in the state from 1973-1980 is shown in Graph 1.

As can be seen, the number of reported abortions has increased over the past eight years although the rate of increase slowed over time. The greatest increase, of approximately 34%, occurred between 1975 and 1976. The increase in abortions performed in the state from 1979 to 1980 was, however, only about 2%.

The proportion of abortions to state residents versus total reported abortions in Minnesota is also shown in Graph 1. Over time, the proportion of resident abortions has remained relatively stable, fluctuating from a low of 79% in 1976 to 87% in 1980.

GRAPH 1

REPORTED INDUCED ABORTIONS MINNESOTA, 1973-1980



*Center for Disease Control data

**Minnesota Abortion Surveillance data

SURVEILLANCE RESULTS, 1980

The number of induced abortions recorded by the Minnesota Abortion Surveillance increased for the sixth consecutive year. Minnesota facilities reported 19,028 abortions in 1980, a 1.9% increase over the 18,672 reported in 1979. The number of Minnesota resident women receiving abortions in Minnesota facilities showed a 5.4% increase from 15,647 in 1979 to 16,490 in 1980.

The age range of Minnesota women receiving abortions was 12 to 50 years. Women under 20 years accounted for 34.6% of all reported procedures, while women 40 and over comprised 1.1% of the total. As shown in Table A (page 8), the proportion of abortion recipients under age 20 decreased from 41.4% reported in 1976 to the 1980 figure of 34.6%. During this period, the proportion of abortion recipients over age 40 also decreased, indicating an increase on the proportion of recipients 20-40 years old.

Never married women represented 73.2% of the resident abortions. Although 12.8% of all abortion recipients indicated they were married, only 1.9% of those younger than 20 years specified "currently married."

Among those abortions where race of patient was reported, the race and ethnic distribution of Minnesota resident women receiving abortions in 1980 was: 86.9% White, 4.5% Black, 0.8% Indian, 0.7% Hispanic, 1.4% Other races. These data reflect no major changes from 1979.

Prior abortions were reported in 25.2% of the overall resident reports, and by 29.9% of the women aged 20-40 years. One or more previous

births was reported by 27.7% of all patients and by 93.4% of those aged 40 and over.

1980 was the first full year in which five category choices relative to abortion recipients' "contraceptive use at the time of conception" were available for reporting by Minnesota facilities. Prior to July, 1979, facility coders categorized abortion recipient's contraceptive - use responses as: 1) Never used 2) Have used but discontinued 3) Was using at conception, or 4) Contraceptive use unknown. In July of 1979, a fifth category, "Interrupted use of usual method" was added to the reporting form. This new category means that the abortion recipient indicated regular contraceptive use, but during the cycle in which the pregnancy was conceived, missed a pill or two, did not check for her IUD string, did not use her diaphragm on one or two occasions, did not abstain during her fertile period, etc. Addition of the new category allows for clearer differentiation between contraceptive method failure and human error. During 1980, interrupted use appeared in 6.7% of the reported resident abortions.

As shown by Table A approximately three quarters of the 1980 Minnesota resident abortion recipients reported some prior contraceptive experience. Only one quarter, however, reported contracept ve use at the time of conception. As this figure is subject to reporting error it may reflect more than mechanical failures of the contraceptive method. It very likely includes use failures; that is, the method was used carelessly or without knowledge or understanding of proper use.

For approximately one in four of the abortions reported to state

residents, no prior use of contraception was indicated.

As in previous Surveillance years, first trimester patients (≤12 weeks gestation) accounted for the majority of all women receiving abortions (86.9%). Table A indicates that abortions in 1980 were done at an earlier gestational age than in previous Surveillance years. The proportion of abortions performed after 15 weeks gestation decreased from 7.3% in 1976 to 5.4% in 1980.

The lowest complication rate in the five years of reporting was observed in 1979, not 1980. Major complications were noted for only 18 of the resident abortions in 1979, but totalled 38 in 1980.

During 1979 data privacy regulations eliminated the major channels through which the Minnesota Center for Health Statistics had previously verified complication reports, creating a greater margin of error relative to the reporting of actual abortion-related complications occurring in Minnesota. Despite the increase in number, the 1980 complication rate of 2.3 complications per 1,000 abortions was lower than those rates observed in 1977 and 1978.

Abortion-related complications included any of the following factors: 1) Hemorrhage (500 ml or greater); 2) Pelvic infection; 3) Fever (>38^{o} C); 4) Cervical injury; 5) Uterine perforation; 6) Retained tissue; 7) Continuing pregnancy (incomplete abortion); and 8) Any other medical complication related to the abortion procedure.

The abortion rate (number of abortions per 1,000 women aged 15-44) has increased for the past six years. The Minnesota abortion rate in 1980 was 17.2% as compared to the rate of 10.3% observed in 1975.

TABLE A

REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1976-1980

	1976	1977	1978	1979	1980	Percent Change 1979-80	Percent Change 1976-80
Reported Induced Abortions[1]							
Total Reported Abortions	14,124	15,532	17,262	18,672	19,028	+1.9	+34.7
Minnesota Resident Abortions	11,109	13,036	14,521	15,647	16,490	+5.4	+48.4
Total Monthly Average	1,177	1,294	1,438	1,556	1,586	+7.9	+34.7
Resident Monthly Average	926	1,086	1,210	1,304	1,374	+5.4	+48.4
Gestational Age[1]							
Proportion <9 weeks	35.8%	37.1%	35.4%	36.4%	38.1%	+4.7%	+6.4%
Proportion <13 weeks	85.2%	86.0%	86.4%	88.4%	86.9%	-1.7%	+2.0%
Proportion ≥16 weeks	7.3%	6.1%	5.6%	4.1%	5.4%	+31.7%	-26.0%
Patient's Age[1]							
Proportion <Age 16	4.0%	3.2%	2.6%	2.2%	2.3%	+4.5%	-42.5%
Proportion <Age 20	41.1%	38.1%	36.1%	35.8%	34.6%	-3.4%	-15.8%
Proportion ≥Age 40	1.3%	1.5%	1.0%	1.1%	1.1%	0	-15.4%
Contraception[1]							
Proportion "Never Used"	30.9%	29.2%	25.9%	24.0%	22.4%	-6.7%	-27.5%
Proportion "Have Used but Discontinued"	51.3%	48.5%	45.5%	44.8%	40.7%	-9.2%	-20.7%
Proportion "Was Using at Conception"	17.1%	18.9%	21.6%	25.3%	25.9%	+2.4%	+51.5%
Proportion "Interrupted Use of Usual Method"[2]	-	-	-	2.7%	6.7%		
Complications[1]							
Total Per 1,000 Procedures	3.75	2.70	2.90	1.18	4.04	+242.4	+7.7
Resident Per 1,000 Procedures	4.05	2.76	3.17	1.15	3.94	+242.6	-2.7
Resident - Suction Curettage	3.02	2.63	2.84	0.82	2.55	+211.0	-15.6
Resident - All Other Methods	10.51	3.97	5.39	3.07	1.39	-54.7	-86.8

[1]Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[2]Category was added July 1979.

Graph 2

REPORTED INDUCED ABORTIONS
NUMBER REPORTED BY RECIPIENT's AGE
MINNESOTA RESIDENTS, 1980

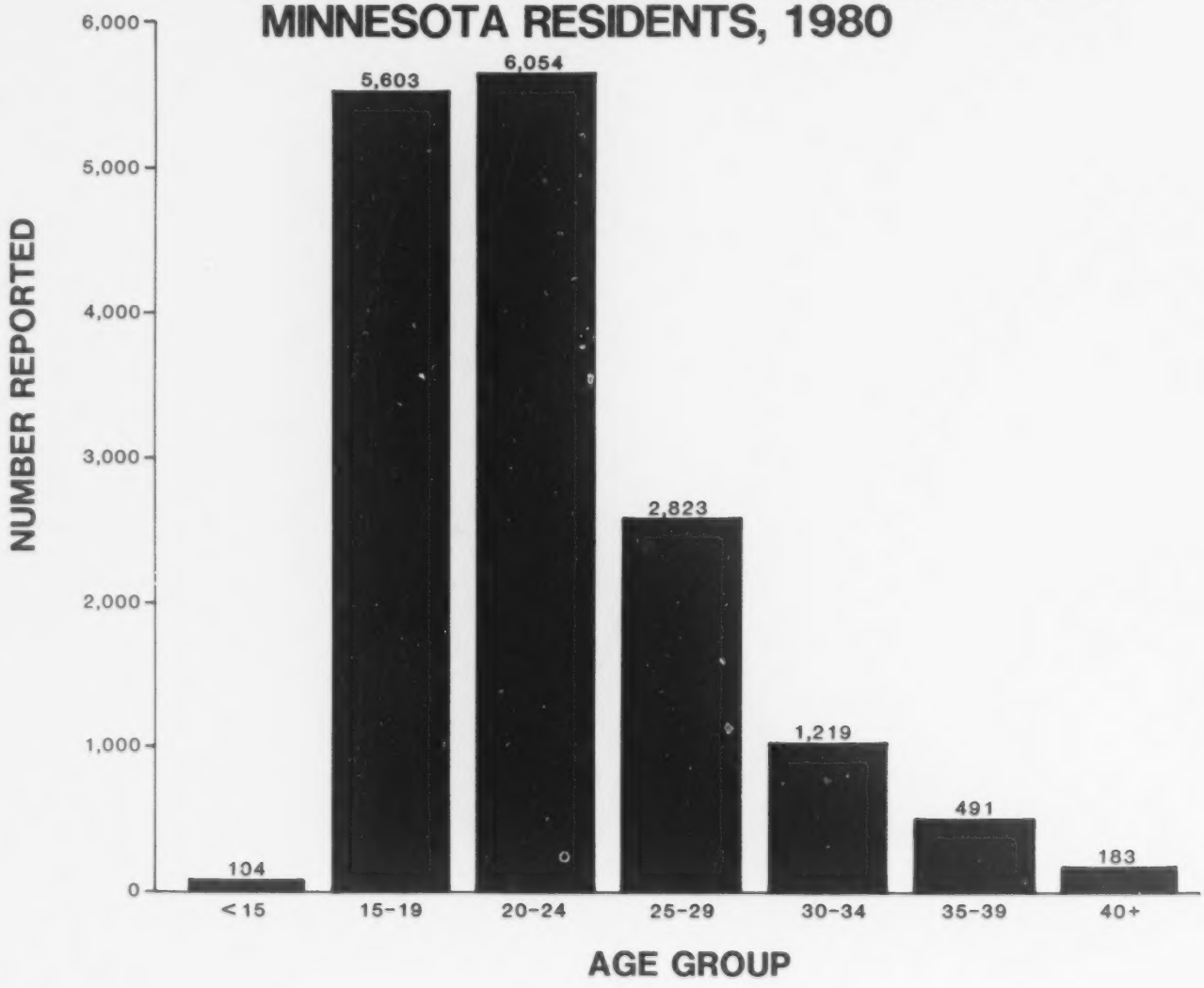


Table 1

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1980

Age Group	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
<15	130	0.7	104	0.6	80.0
15-19	6,531	34.3	5,603	34.0	85.8
20-24	7,014	36.9	6,054	36.7	86.3
25-29	3,180	16.7	2,823	17.1	88.8
30-34	1,381	7.3	1,219	7.4	88.3
35-39	555	2.9	491	3.0	88.5
40+	223	1.2	183	1.1	82.1
Unknown	14	0.1	13	0.1	92.9
TOTAL	19,028	100.0	16,490	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (age X)}}{\text{Total Reported Abortions (age X)}}$ X 100

Table 2

REPORTED INDUCED ABORTIONS
BY INDIVIDUAL AGE FOR TEENAGE PATIENTS
AND BY SELECTED AGE GROUP BY RESIDENCE

MINNESOTA, 1980

	Total Reported Abortions			Minnesota Resident Abortions			
Age	Number	Percentage of Teens	Percentage of Total	Number	Percentage of Teens	Percentage of Residents	Resident Percentage*
<12	1	0.0	0.0	0	0.0	0.0	0.0
12	4	0.1	0.0	4	0.1	0.0	100.0
13	18	0.3	0.1	15	0.3	0.1	83.3
14	107	1.6	0.6	85	1.5	0.5	79.4
15	319	4.8	1.7	268	4.7	1.6	84.0
16	862	12.9	4.5	746	13.1	4.5	86.5
17	1,422	21.3	7.5	1,209	21.2	7.3	85.0
18	1,892	28.4	9.9	1,633	28.6	9.9	86.3
19	2,036	30.6	10.7	1,747	30.6	10.6	85.8
10-19	6,661	100.0	35.0	5,707	100.0	34.6	85.7
20-29	10,194	-	53.6	8,877	-	53.8	87.1
30-39	1,936	-	10.2	1,710	-	10.4	88.3
40+	223	-	1.2	183	-	1.1	82.1
Unknown	14	-	0.1	13	-	0.1	92.9
TOTAL	19,028	-	100.0	16,490	-	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}}$ X 100

Table 3

REPORTED INDUCED ABORTIONS
BY RACE/ETHNIC GROUP AND RESIDENCE

MINNESOTA, 1980

Race	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
White	16,721	87.9	14,338	86.9	85.7
Black	758	4.0	736	4.5	97.1
American Indian	167	0.9	136	0.8	81.4
Hispanic	121	0.6	115	0.7	95.0
Other	252	1.3	234	1.4	92.9
Unknown	1,009	5.3	931	5.6	92.3
TOTAL	19,028	100.0	16,490	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (race X)}}{\text{Total Reported Abortions (race X)}}$ X 100

Table 4

REPORTED INDUCED ABORTIONS
BY MARITAL STATUS AND RESIDENCE

MINNESOTA, 1980

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Never Married	13,948	73.3	12,072	73.2	86.6
Married	2,444	12.8	2,110	12.8	86.3
Divorced	1,546	8.1	1,345	8.2	87.0
Separated	625	3.3	548	3.3	87.7
Widowed	62	0.3	53	0.3	85.5
Unknown	403	2.1	362	2.2	89.8
TOTAL	19,028	100.0	16,490	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}}$ X 100

Table 5

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND MARITAL STATUS
MINNESOTA RESIDENTS, 1980

Age Group	Reported Resident Abortions	Marital Status					
		Never Married	Currently Married	Divorced	Separated	Widowed	Unknown
<15	104	104	0	0	0	0	0
15-19	5,603	5,352	107	22	32	2	88
20-24	6,054	4,841	578	298	201	11	125
25-29	2,823	1,400	622	516	195	14	76
30-34	1,219	301	429	338	82	15	54
35-39	491	53	250	137	31	5	15
40+	183	9	124	34	7	6	3
Unknown	13	12	0	0	0	0	1
TOTAL	16,490	12,072	2,110	1,345	548	53	362

GRAPH 3

REPORTED INDUCED ABORTIONS

PERCENT OF TOTAL RESIDENT ABORTIONS BY GESTATION WEEKS MINNESOTA, 1980

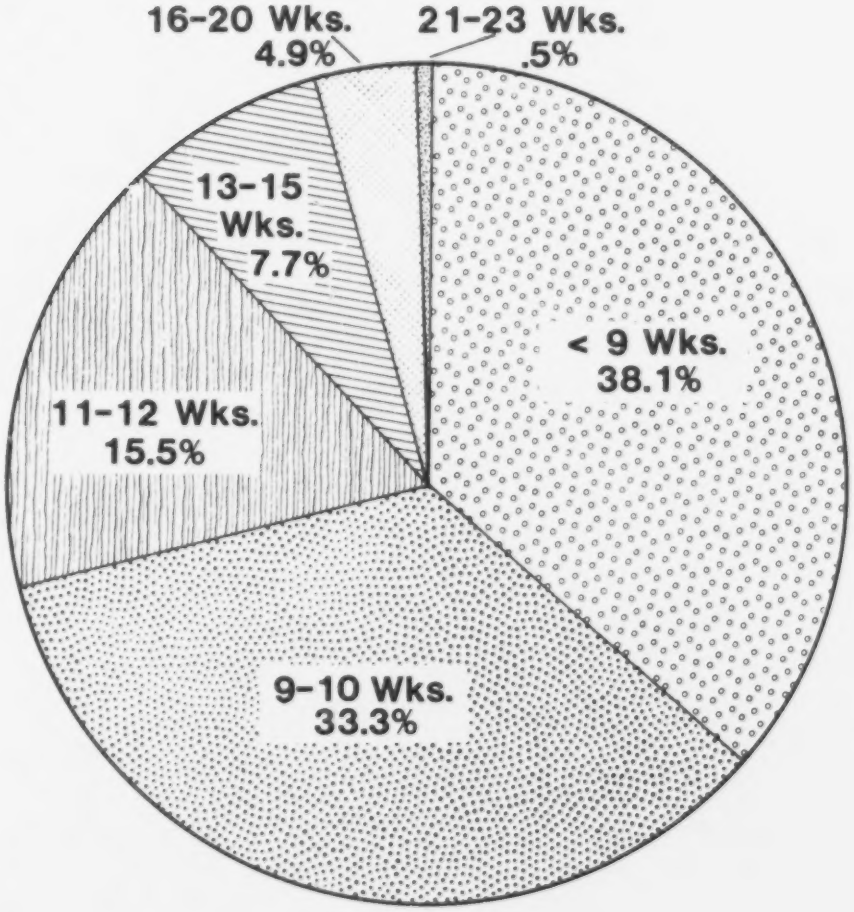


Table 6

REPORTED INDUCED ABORTIONS
BY GESTATION AND RESIDENCE

MINNESOTA, 1980

Weeks of Gestation* (Post LMP)	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage**
	Number	Percentage	Number	Percentage	
<9	6,938	36.5	6,280	38.1	90.5
9-10	6,301	33.1	5,498	33.3	87.3
11-12	2,993	15.7	2,554	15.5	85.3
13-15	1,500	7.9	1,269	7.7	84.6
16-20	1,157	6.1	806	4.9	69.7
21-23	139	0.7	83	0.5	59.7
TOTAL	19,028	100.0	16,490	100.0	86.7

* Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

** Resident Percentage = $\frac{\text{Minnesota Resident Abortions (week X)}}{\text{Total Reported Abortions (week X)}} \times 100$

Table 7

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY WEEKS OF GESTATION
MINNESOTA RESIDENTS, 1980

Age Group	Reported Resident Abortions	Gestation in Weeks* (LMP)					
		<9	9-10	11-12	13-15	16-20	21-23
<15	104	29	26	19	11	14	5
15-19	5,603	1,675	1,851	1,035	576	416	50
20-24	6,054	2,397	2,084	892	436	229	16
25-29	2,823	1,330	918	356	139	74	6
30-34	1,219	576	381	155	61	44	2
35-39	491	207	181	58	27	17	1
40+	183	63	54	34	17	12	3
Unknown	13	3	3	5	2	0	0
TOTAL	16,490	6,280	5,498	2,554	1,269	806	83

* Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Table 8

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS
AND RESIDENCE

MINNESOTA, 1980

Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	14,421	75.8	12,333	74.8	85.5
1	3,707	19.5	3,341	20.3	90.1
2	711	3.7	642	3.9	90.3
3	151	0.8	138	0.8	91.4
4	23	0.1	21	0.1	91.3
5+	15	0.1	15	0.1	100.0
Unknown	0	0	0	0	0
TOTAL	19,028	100.0	16,490	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}}$ X 100

GRAPH 4

REPORTED INDUCED ABORTIONS PERCENT DISTRIBUTION FIRST TIME ABORTION RECIPIENTS VERSUS REPEAT ABORTION RECIPIENTS BY AGE GROUP MINNESOTA RESIDENTS, 1980

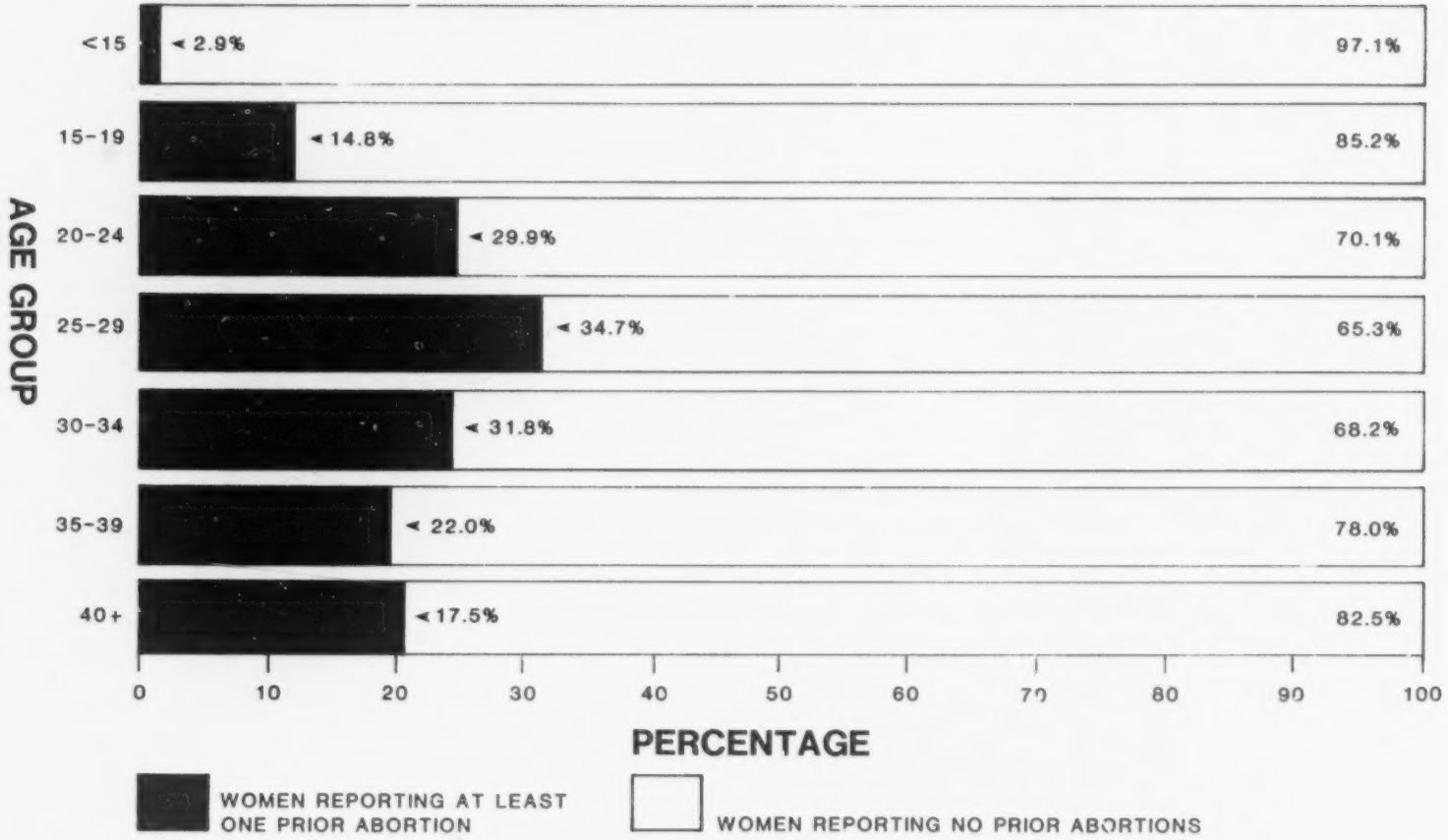


Table 9

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1980

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Prior Abortions*	%**	Number	Abortions*	%**
<15	130	3	2.3	104	3	2.9
15-19	6,531	920	14.1	5,603	831	14.8
20-24	7,014	2,029	28.9	6,054	1,813	29.9
25-29	3,180	1,078	33.9	2,823	980	34.7
30-34	1,381	416	30.1	1,219	388	31.8
35-39	555	117	21.1	491	108	22.0
40+	223	42	18.8	183	32	17.5
Unknown	14	2	14.3	13	2	15.4
TOTAL	19,028	4,607	24.2	16,490	4,157	25.2

* Number of women who reported at least one prior abortion.

** Percentage of women within each age group who reported having had at least one prior abortion.

Table 10

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS
AND RESIDENCE

MINNESOTA, 1980

Number of Prior Live Births	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	13,850	72.8	11,919	72.3	86.1
1	2,561	13.5	2,282	13.8	89.1
2	1,647	8.7	1,451	8.8	88.1
3	602	3.2	523	3.2	86.9
4	217	1.1	179	1.1	82.5
5	89	0.5	78	0.5	87.6
6	35	0.2	33	0.2	94.3
7	13	0.1	13	0.1	100.0
8	4	0.0	3	0.0	75.0
9+	10	0.1	9	0.1	90.0
Unknown	0	0	0	0	0
TOTAL	19,028	100.0	16,490	100.0	86.7

$$\text{* Resident Percentage} = \frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$$

Table 11

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR LIVE BIRTHS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1980

	Total Reported Abortions			Minnesota Resident Abortions		
Age Group	Number	Prior Live Births*	%**	Number	Prior Live Births*	%**
<15	130	1	0.8	104	1	1.0
15-19	6,531	494	7.6	5,603	450	8.0
20-24	7,014	1,656	23.6	6,054	1,478	24.4
25-29	3,180	1,403	44.1	2,823	1,232	43.6
30-34	1,381	957	69.3	1,219	834	68.4
35-39	555	458	82.5	491	404	82.3
40+	223	208	93.3	183	171	93.4
Unknown	14	1	7.1	13	1	7.7
TOTAL	19,028	5,178	27.2	16,490	4,571	27.7

* Number of women who reported at least one prior live birth.

** Percentage of women within each age group who reported having had at least one prior live birth.

Table 12

REPORTED INDUCED ABORTIONS
BY METHOD BY WEEKS OF GESTATION
MINNESOTA RESIDENTS, 1980

Method*	Reported Resident Abortions	Gestation in Weeks** (LMP) <9	9-10	11-12	13-15	16-20	21-23
Suction Curettage	14,030	5,814	5,191	2,222	747	53	3
Laminaria & Curettage	1,321	66	28	35	431	730	31
Combination	1,008	343	275	296	91	3	0
Prostaglandin	66	0	0	0	0	17	49
Sharp Curettage	2	0	1	1	0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0
Saline	1	0	1	0	0	0	0
Menstrual Extraction(-)†	44	39	2	0	0	3	0
Menstrual Extraction(+)†	18	18	0	0	0	0	0
TOTAL	16,490	6,280	5,498	2,554	1,269	806	83

* See definitions of methods in index.

** Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

† (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

Table 13

REPORTED INDUCED ABORTIONS
BY METHOD BY COMPLICATIONS AND RESIDENCE
MINNESOTA, 1980

	Total Reported Abortions				Minnesota Resident Abortions			
Method*	Procedures	%	Complications	Rate/1000**	Procedures	%	Complications	Rate/1000**
Suction Curettage	15,899	83.6	30	1.89	14,030	85.1	24	1.71
Laminaria & Curettage	1,817	9.5	10	5.50	1,321	8.0	7	5.30
Combination	1,159	6.1	1	0.86	1,008	6.1	1	0.99
Prostaglandin***	79	0.4	6	75.95	66	0.4	5	75.76
Sharp Curettage	2	0.0	0	0	2	0.0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0	0
Saline	1	0.0	0	0	1	0.0	0	0
Menstrual Extraction(-)†	50	0.3	1	20.00	44	0.3	1	22.73
Menstrual Extraction(+)†	21	0.1	0	0	18	0.1	0	0
TOTAL	19,028	100.0	48	2.52	16,490	100.0	38	2.30

Reported complications include the categories hemorrhage (≥500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions.

* See definitions of methods in the index.

** Rate is reported complications per 1,000 abortion procedures.

*** Due to reporting difficulties residence is unknown for all prostaglandin procedure patients.

† (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

GRAPH 5

REPORTED INDUCED ABORTIONS
LEVEL OF CONTRACEPTIVE USE BY AGE GROUP
MINNESOTA RESIDENTS, 1980

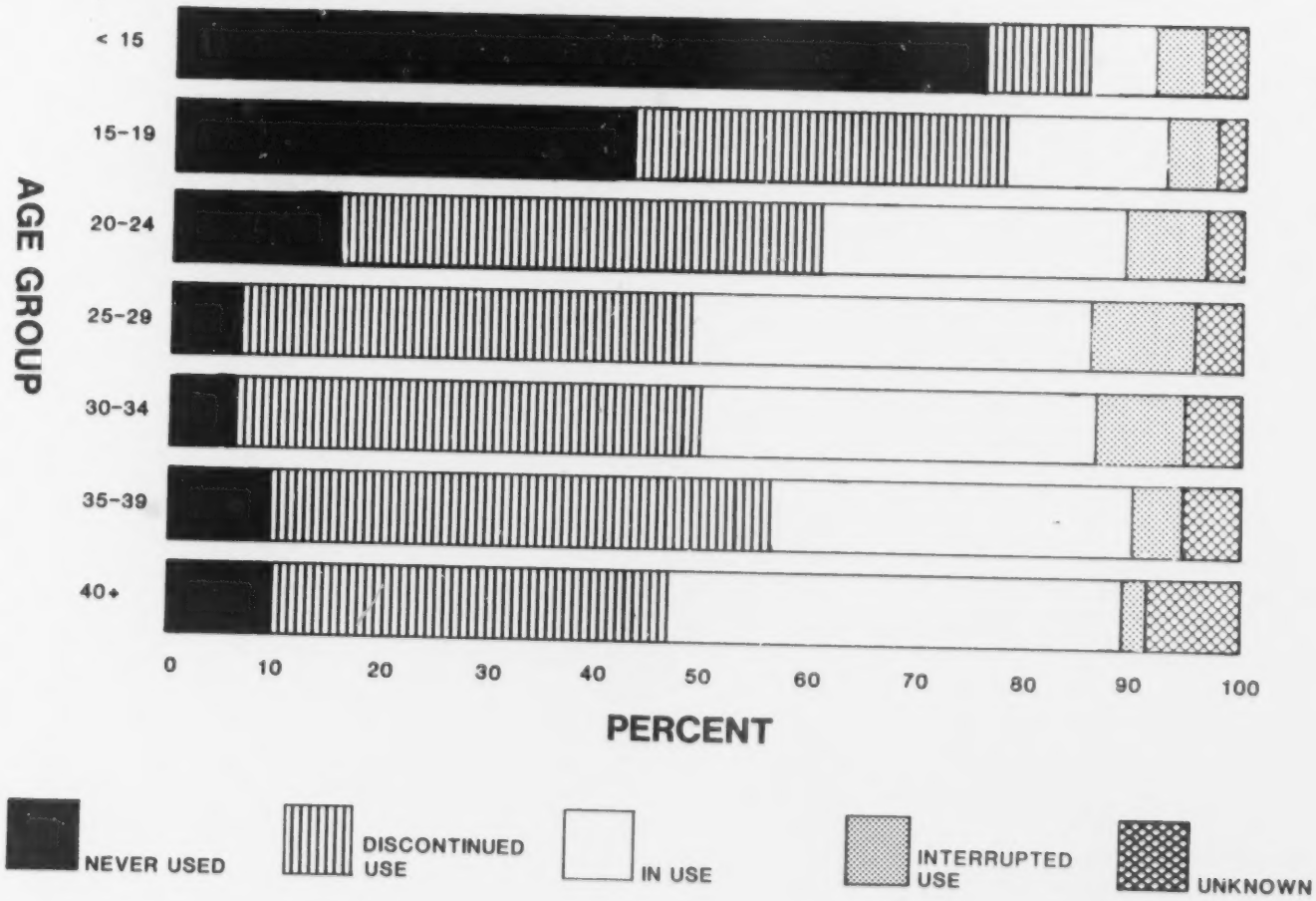


Table 14

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY CONTRACEPTIVE USE
MINNESOTA RESIDENTS, 1980

Age Group	Reported Resident Abortions	Reported Contraceptive Use*									
		Never Used	%**	Discontinued Use	%**	In Use	%**	Interrupted Use	%**	Unknown	%**
<15	104	78	75.0	10	9.6	6	5.8	5	4.8	5	4.8
15-19	5,603	2,369	42.3	1,996	35.6	806	14.4	241	4.3	191	3.4
20-24	6,054	931	15.4	2,697	44.5	1,735	28.7	455	7.5	236	3.9
25-29	2,823	187	6.6	1,174	41.6	1,035	36.7	276	9.8	151	5.3
30-34	1,219	73	6.0	533	43.7	439	36.0	99	8.1	75	6.2
35-39	491	43	8.8	227	46.2	162	33.0	27	5.5	32	6.5
40+	183	17	9.3	66	36.1	77	42.1	5	2.7	18	9.8
Unknown	13	2	15.4	8	61.5	3	23.1	0	0.0	0	0.0
TOTAL	16,490	3,700	22.4	6,711	40.7	4,263	25.9	1,108	6.7	708	4.3

* Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.).

** Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

Table 15

REPORTED INDUCED ABORTIONS
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE
MINNESOTA RESIDENTS, 1980

Marital Status	Reported Resident Abortions	Reported Contraceptive Use*									
		Never Used	%**	Discontinued Use	%**	In Use	%**	Interrupted Use	%**	Unknown	%**
Never Married	12,072	3,382	28.0	4,762	39.4	2,730	22.6	785	6.5	413	3.4
Married	2,110	152	7.2	815	38.6	833	39.5	179	8.5	131	6.2
Divorced	1,345	65	4.8	666	49.5	463	34.4	89	6.6	62	4.6
Separated	548	41	7.5	301	54.9	148	27.0	31	5.7	27	4.9
Widowed	53	7	13.2	24	45.3	14	26.4	2	3.8	6	11.3
Unknown	362	53	14.6	143	39.5	75	20.7	22	6.1	69	19.1
TOTAL	16,490	3,700	22.4	6,711	40.7	4,263	25.9	1,108	6.7	708	4.3

* Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)

** Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

Table 16

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION
MINNESOTA RESIDENTS, 1980

Contraceptive Type	Reported Resident Abortions	Age Group							
		<15	15-19	20-24	25-29	30-34	35-39	40+	Unknown
None	10,643	90	4,387	3,680	1,444	645	293	95	9
Rhythm	345	0	82	110	65	44	29	15	0
Douche/ Withdrawal	171	2	75	55	22	9	2	6	0
Foam	594	0	102	217	135	78	40	22	0
Condom	808	6	284	257	152	68	29	11	1
Foam & Condom	355	1	94	143	68	32	13	4	0
Diaphragm	1,453	0	112	641	493	165	34	7	1
Intrauterine Device	295	0	31	114	89	47	12	1	1
Birth Control Pills	1,186	4	328	558	199	75	15	6	1
Male/Female Sterilization	65	0	1	7	22	14	13	8	0
Encare Oval	519	1	105	249	114	33	10	7	0
Injectable	5	0	1	1	1	1	0	1	0
Natural Family Planning	50	0	1	22	18	8	1	0	0
Other	1	0	0	0	1	0	0	0	0
TOTAL	16,490	104	5,603	6,054	2,823	1,219	491	183	13

Graph 6

REPORTED INDUCED ABORTIONS
NUMBER OF ABORTIONS BY MONTH PERFORMED
MINNESOTA RESIDENTS, 1980

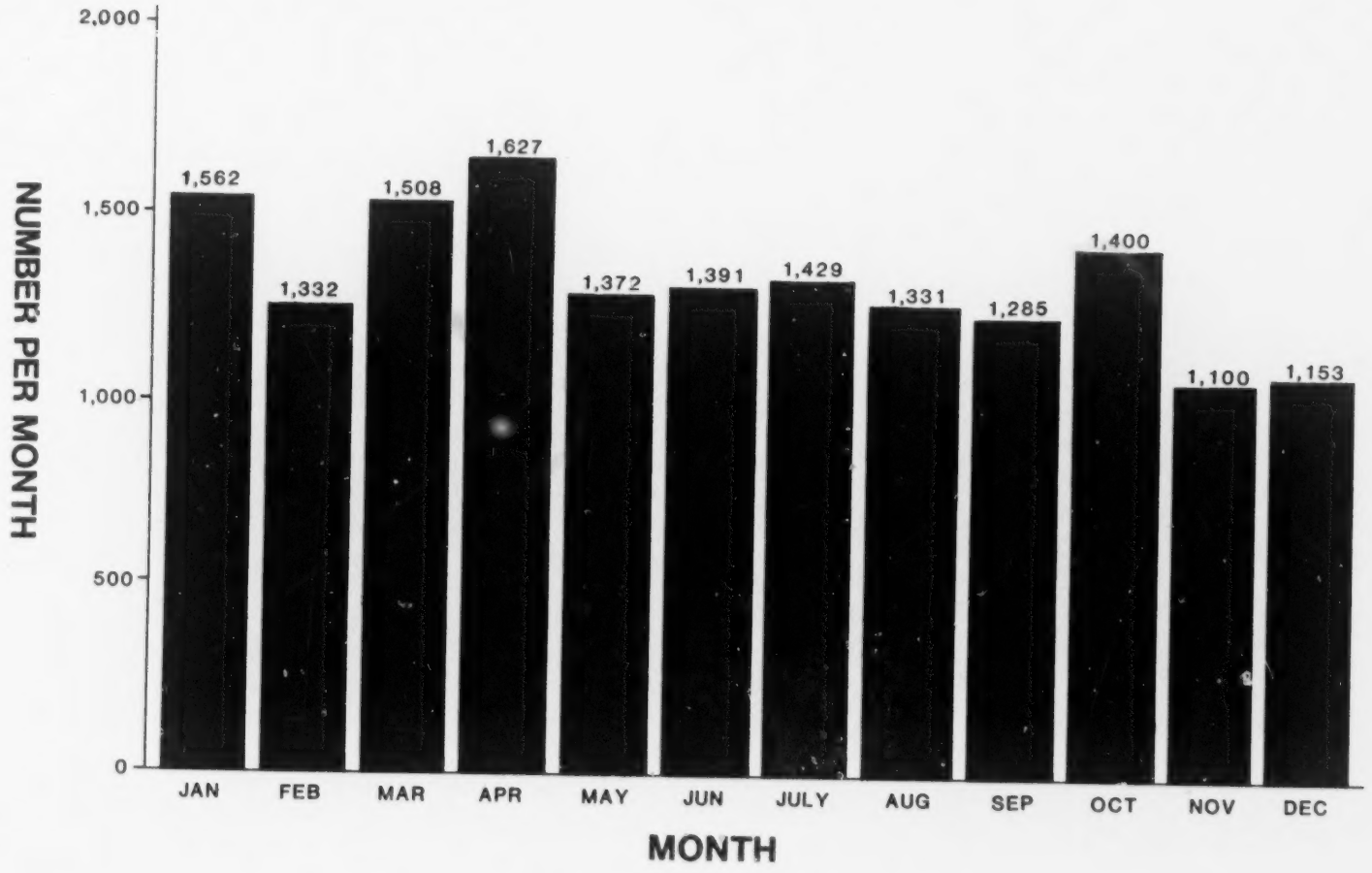


Table 17

REPORTED INDUCED ABORTIONS
BY QUARTER AND RESIDENCE

MINNESOTA, 1980

Quarter	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Jan - Mar	5,111	26.9	4,402	26.7	86.1
Apr - June	4,992	26.2	4,390	26.6	87.9
July - Sept	4,727	24.8	4,045	24.5	85.6
Oct - Dec	4,198	22.1	3,653	22.2	87.0
TOTAL	19,028	100.0	16,490	100.0	86.7

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (quarter X)}}{\text{Total Reported Abortions (quarter X)}}$ X 100

GRAPH 7

REPORTED INDUCED ABORTIONS BY COUNTY OF RESIDENCE MINNESOTA 1980

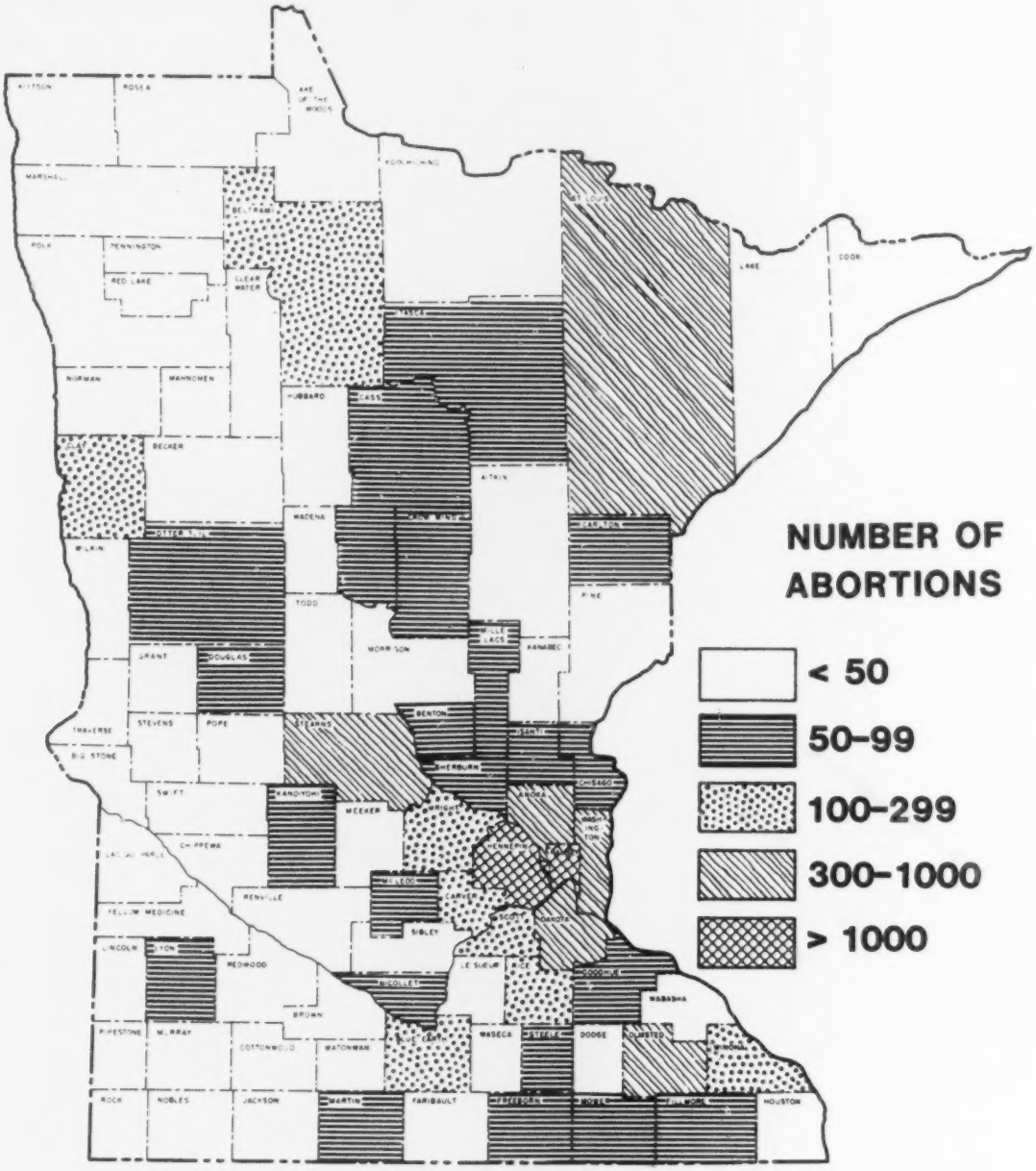


Table 18

REPORTED INDUCED ABORTIONS
OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS
BY STATE OR COUNTRY OF RESIDENCE, 1980

State of Residence	Reported Abortions		State of Residence	Reported Abortions	
	Number	Percentage		Number	Percentage
Alabama	1	0.0	North Carolina	2	0.1
Alaska	1	0.0	North Dakota	295	11.6
Arizona	3	0.1	Ohio	2	0.1
California	3	0.1	Oklahoma	1	0.0
Colorado	4	0.2	Oregon	4	0.2
Connecticut	1	0.0	South Dakota	445	17.5
District of Columbia	1	0.0	Tennessee	2	0.1
Florida	3	0.1	Texas	5	0.2
Georgia	5	0.2	Vermont	1	0.0
Hawaii	1	0.0	Virginia	1	0.0
Illinois	70	2.8	Washington	2	0.1
Indiana	5	0.2	West Virginia	1	0.0
Iowa	191	7.5	Wisconsin	1,231	48.5
Kansas	1	0.0	Wyoming	1	0.0
Kentucky	3	0.1			
Maryland	2	0.1	Country of Residence		
Massachusetts	2	0.1			
Michigan	32	1.3	Canada	148	5.8
Missouri	1	0.0			
Montana	6	0.2	Other & Unknown	50	2.0
Nebraska	8	0.3			
New York	3	0.1	TOTAL	2,538	100.0

DEFINITIONS*

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance.

ABORTION RATE:

The number of abortions per 1,000 women in the population aged 15-44 years.

BIRTH RATE:

The number of live births per 1,000 population.

COMPLICATIONS:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage ($\geq$ 500ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FERTILITY RATE:

The number of live births per 1,000 women in the population aged 15-44 years.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

*As used in this report.

DEFINITION*

PREGNANCY RATE:

The number of live births, fetal deaths, and induced abortions per 1,000 women in the population aged 15-44 years.

TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

ABORTION PROCEDURES:

Combination: Two or more abortion methods used simultaneously or sequentially.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Laminaria and curettage (Dilation and Evacuation, D & E): Dilitation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the 14th day after a missed menstrual period, and before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring horome) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Sharp curettage: Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

Suction curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

Complete and return to:

Center for Health Statistics
Minnesota Department of Health
717 Delaware St. S. E.
Minneapolis, Minnesota 55440

5

PLEASE PRINT

REPORT OF INDUCED ABORTION

TYPE OF ADMISSION

1 = Inpatient 2 = Outpatient 3 = Clinic 4 = Other _____

FACILITY ID CODE [1] [ ][ ][ ][ ]

PATIENT RESIDENCE *(Write in)*

City _____

County _____

State _____

MDH use only
12 [ ][ ][ ][ ]
16 [ ][ ]
18 [ ][ ]

AGE IN YEARS *(Birth Date Optional* [ ][ ] Month [ ][ ] Day [ ][ ] Year *)*

20 [ ][ ] Years

RACE/ETHNICITY 1 = White 2 = Black 3 = American Indian 4 = Hispanic 5 = Japanese/Chinese/Asian 6 = Other 7 = Unknown

22 [ ]

MARITAL STATUS 1 = Never Married 2 = Married Now 3 = Widowed 4 = Divorced 5 = Separated 6 = Unknown

23 [ ]

CONTRACEPTIVES USED?

1 = Never used any contraceptive method
2 = Have used but discontinued method
3 = Was using at conception *(See 46 below)**
4 = Unknown
5 = Interrupted use of usual method *(See 46 below)**

Total number of prior pregnancies to this woman *(a+b+c below)*

24 [ ]

a. Total number of live births [ ]
b. Fetal deaths, spontaneous abortions [ ]
c. Number of prior induced abortions [ ]

28 [ ]

DATE OF ABORTION

29 [ ][ ] Month [ ][ ] Day [ ][ ] Year

DATE OF LAST NORMAL MENSES (LMP)

35 [ ][ ] Month [ ][ ] Day [ ][ ] Year

GESTATION WEEKS *(Physicians estimate of completed weeks post LMP)*

41 [ ][ ] Weeks

ABORTION METHOD

1 = Suction curettage
2 = Sharp curettage
3 = Saline/fluid exch
4 = Prostaglandin
5 = Hysterectomy/otomy
6 = Combination *(Circle each)*
7 = Menstrual extr (– preg)
8 = Menstrual extr (+ preg)
9 = Laminaria & curettage

43 [ ]

COMPLICATIONS OR FAILURES *(Was patient hospitalized? Yes No [Circle one])*

0 = None
1 = Hemorrhage (500 ml)
2 = Pelvic infection
3 = Fever (>38° C)
4 = Cervical injury
5 = Uterine perforation
6 = Retained tissue
7 = Continuing pregnancy
8 = Other *(Specify)* _____

44 [ ]

Optional

RELIGIOUS PREFERENCE 1 = Prot 2 = Cath 3 = Jew 4 = Other 5 = None 6 = Unk

45 [ ]

*CURRENT CONTRACEPTIVE *(As indicated by 28 above)*

0 = None
1 = Rhythm
2 = Douche or Wthdrwl
3 = Foam
4 = Condom
5 = Foam + Condom
6 = Diaphrm
7 = IUD
8 = Pills
9 = Sterilization (M or F)
A = Suppositories
B = Injectables
C = Natural Family Planning
Other _____

46 [ ]

47 [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

HE - 01160 - 01 (4/80)